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## COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR,  
PRUDENTIAL BUILDING,  
195 NORTH TERRACE,  
ADELAIDE

### RURAL PRODUCTION

SOUTH AUSTRALIA

YEAR ENDED 31 MARCH 1967

#### SCOPE

This bulletin summarizes detailed information published in the bulletins "Livestock, 31 March 1967" and "Cereals, Season 1966-67" recently issued from this Bureau, and shows in addition particulars concerning areas and yields of other crops, rural employment, use of artificial fertilizers, machinery on rural holdings, and direct oversea exports of rural produce. It also lists some South Australian records associated with rural production.

In tables where figures have been rounded, discrepancies between totals and sums of components are due to rounding.

#### AREA AND UTILIZATION OF HOLDINGS

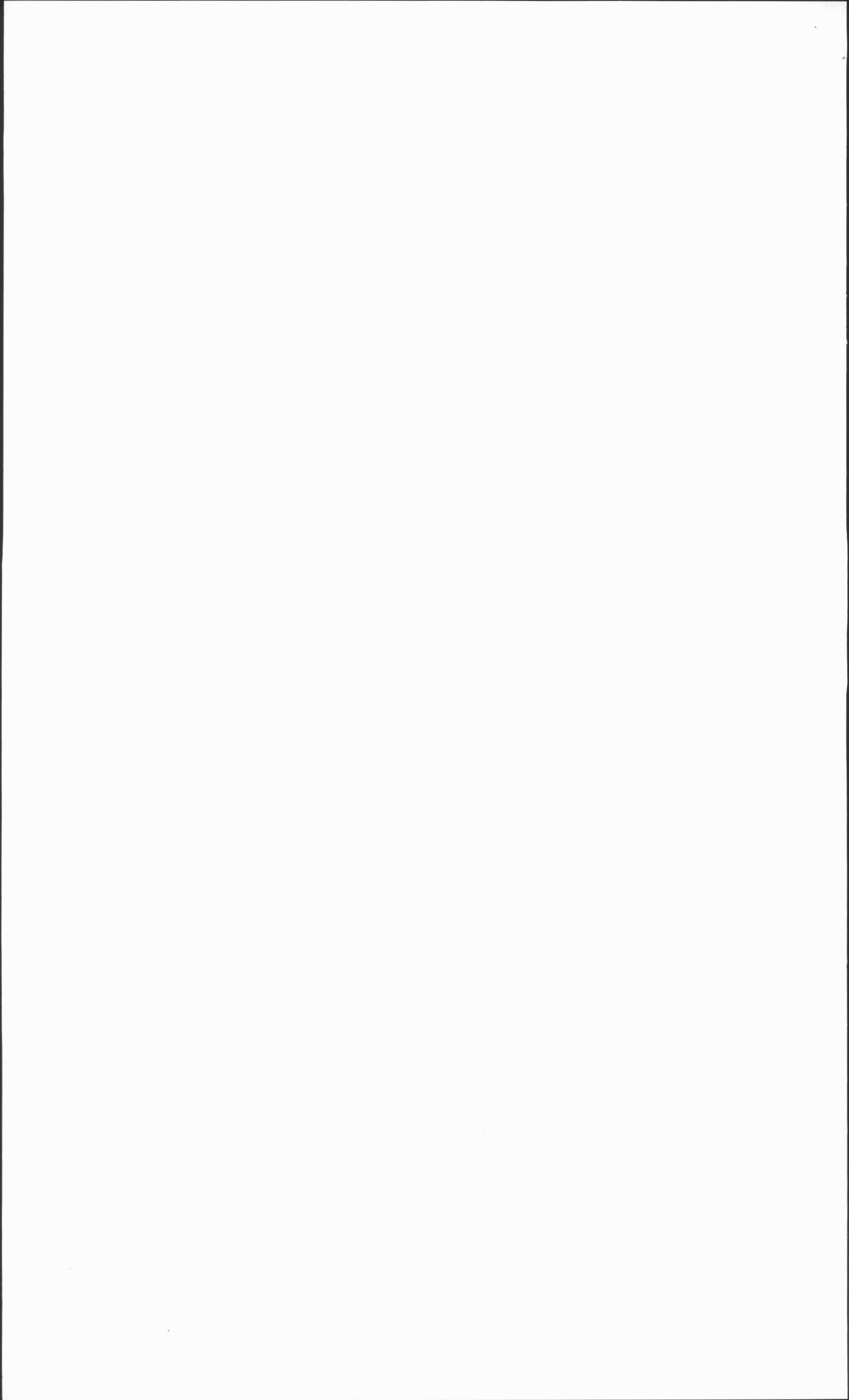
The area of 13,805,000 acres under cultivation (crops, sown pasture, and fallow) was 751,000 acres more than the previous highest of 13,054,000 acres in 1965-66. The total area of crops increased from 5,293,000 acres in 1965-66 to 5,737,000 acres, the increase being mainly in the areas of grain and hay.

The area of sown pasture from 1920 to 1950 increased steadily from 20,000 to 1,066,000 acres but has since increased rapidly. In 1966-67 the area of sown pasture was a record 6,738,000 acres.

TABLE 1 - AREA AND UTILIZATION OF RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1962-63	1963-64	1964-65	1965-66	1966-67
'000 Acres					
Cereals for grain	4,093	4,457	4,309	4,334	4,633
Field peas (grain)	32	30	34	30	29
Hay	288	358	314	299	482
Green forage	367	378	462	474	420
Vineyards	58	59	59	59	57
Orchards	41	42	43	44	44
Vegetables (a)	17	16	16	17	17
Other crops	36	40	53	37	55
Total crops	4,932	5,380	5,290	5,293	5,737
Sown pasture -					
Lucerne	563	595	674	737	762
Clover and other	4,795	4,979	5,540	5,824	5,976
Fallow land	1,158	1,114	1,231	1,201	1,331
Balance of holdings	145,249	146,837	144,219	146,339	147,705
Total area	156,697	158,905	156,954	159,394	161,510

(a) Includes areas of potatoes grown for seed but excludes areas of other vegetables grown for animal forage or seed.



RURAL  
EMPLOYMENT

The following table shows for each of the last three years the number of persons employed in March and the value of wages paid (including keep where applicable) during the twelve months ended 31 March.

TABLE 2 - RURAL EMPLOYMENT (a), SOUTH AUSTRALIA

Particulars	1965		1966		1967	
	Males	Females	Males	Females	Males	Females
Permanent workers -						
Owners, occupiers, etc.	23,136	714	23,035	525	22,579	414
Unpaid relatives	1,207	162	912	69	674	38
Paid employees	8,247	456	8,172	393	8,045	353
Temporary workers (b)	10,984	5,310	10,585	5,178	10,551	5,627
Wages paid (\$'000) -						
Permanent employees	13,491	485	14,064	439	15,225	
Temporary employees (b)(c)	9,952	1,157	10,407	1,066	12,399	

- (a) Excludes females engaged mainly in domestic duties and other workers engaged only part time.  
 (b) Working full time during period of engagement.  
 (c) Excludes payments for construction or development work.

ARTIFICIAL  
FERTILIZERS  
USED

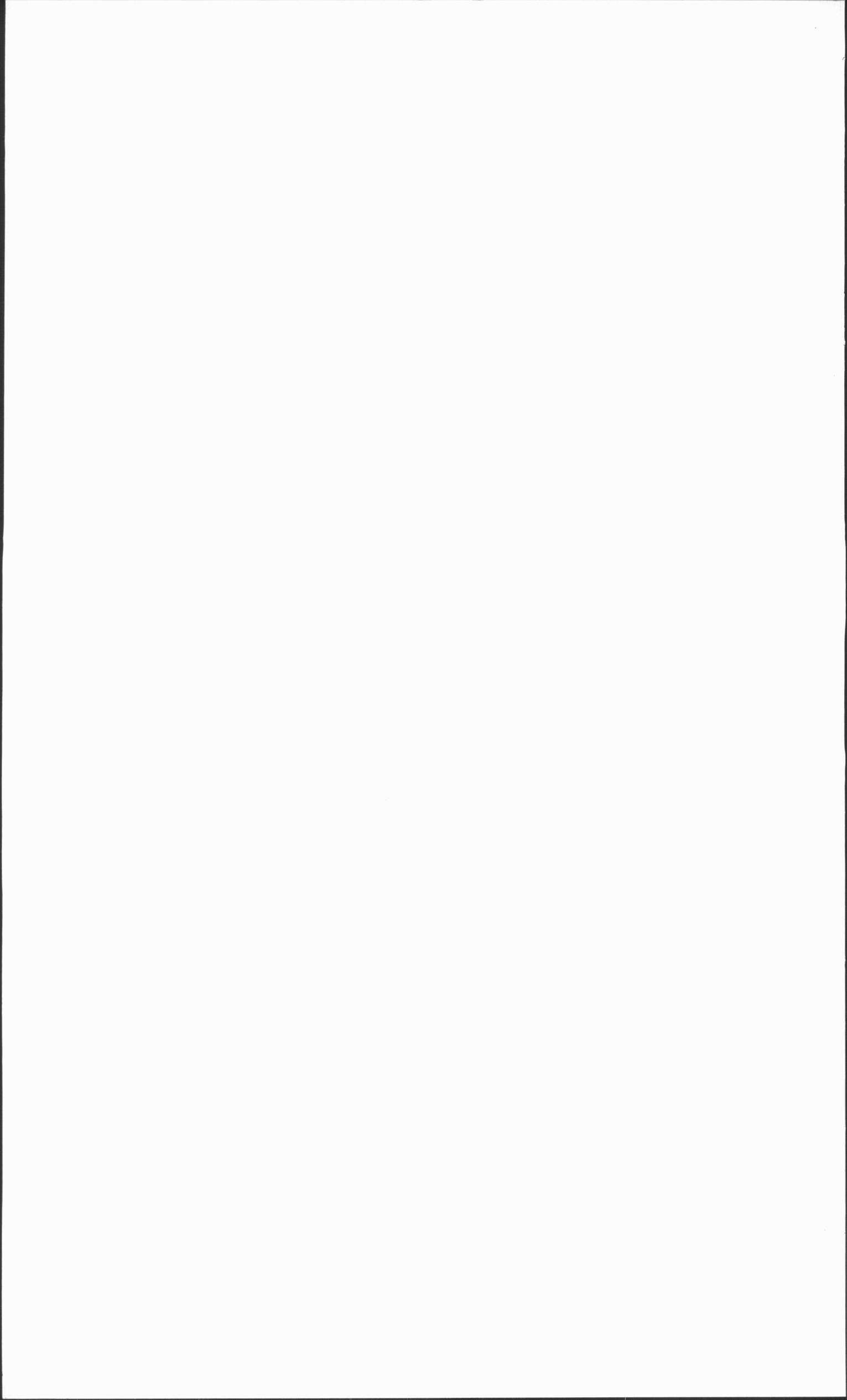
There has been very little change in recent years in the proportion of area under crop fertilized and in the quantity of fertilizer per acre applied to crops and pasture.

TABLE 3 - PRINCIPAL CROPS AND PASTURE FERTILIZED, SOUTH AUSTRALIA, 1966

Particulars	Area Fertilized	Fertilizers Used		Total per Acre
		Superphosphate	Other	
	Acres	Tons	Tons	Lb
Wheat (all purposes)	2,897,865	151,733	1,196	118.21
Vegetables	13,352	2,807	5,249	1,351.52
Fruit and vines	56,216	4,241	7,735	477.20
Other crops	2,155,258	112,302	1,633	118.41
Total crops	5,122,691	271,083	15,813	125.45
Pasture	5,236,534	308,656	3,256	133.42
Grand total	10,359,225	579,739	19,069	129.48

TABLE 4 - CROPS AND PASTURE FERTILIZED, SOUTH AUSTRALIA

Particulars	Unit	1963	1964	1965	1966
Crops -					
Area fertilized	'000 acres	4,788	4,775	4,869	5,123
Fertilizer used	ton	238,905	254,268	265,132	286,896
Cropped area fertilized	%	89.0	90.3	92.0	89.3
Fertilizer per acre	lb	111.8	119.28	121.97	125.45
Pasture -					
Area fertilized	'000 acres	3,993	4,714	5,093	5,237
Fertilizer used	ton	226,678	274,558	296,830	311,912
Fertilizer per acre	lb	127.2	130.45	130.56	133.42



AREA AND  
PRODUCTION  
OF CROPS

Tables 5, 6, 7, and 8, show details of area and production of the principal crops grown in South Australia during 1966-67 compared with similar details for previous years.

TABLE 5 - CEREALS AND HAY : AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1962-63	1963-64	1964-65	1965-66	1966-67
Wheat -						
Area for grain	'000 acres	2,595	2,802	2,727	2,745	2,960
Production	'000 bushel	38,339	53,971	52,817	39,976	53,816
Yield per acre	bushel	14.77	19.26	19.37	14.56	18.18
Barley -						
Area for grain	'000 acres	1,053	1,123	1,095	1,098	1,107
Production	'000 bushel	18,005	24,337	26,932	18,514	23,698
Yield per acre	bushel	17.10	21.67	24.60	16.86	21.41
Oats -						
Area for grain	'000 acres	416	501	444	455	509
Production	'000 bushel	5,770	9,149	8,977	5,622	10,276
Yield per acre	bushel	13.88	18.27	20.23	12.37	20.19
Rye -						
Area for grain	'000 acres	29	31	44	36	57
Production	'000 bushel	144	153	262	186	244
Yield per acre	bushel	4.92	4.88	5.96	5.11	4.31
Field Peas -						
Area for grain	'000 acres	32	30	34	30	29
Production	'000 bushel	392	490	496	242	306
Yield per acre	bushel	12.10	16.25	14.67	8.09	10.67
Hay -						
Area	'000 acres	287	358	314	299	482
Production	'000 tons	406	488	487	368	729
Yield per acre	ton	1.41	1.37	1.55	1.23	1.51

TABLE 6 - VEGETABLES (a) : AREA AND PRODUCTION, SOUTH AUSTRALIA

Vegetable	Area		Production		
	1965-66	1966-67	Unit	1965-66	1966-67
Acres					
Beans - French	183	187	bushel	46,577	41,327
Beetroot	88	89	ton	769	671
Cabbage	365	405	dozen	164,405	197,104
Carrots	331	368	ton	4,453	5,224
Cauliflowers	549	633	dozen	211,396	276,474
Celery	289	267	crate	203,772	204,905
Green peas	4,075	4,035	bushel	245,024	327,088
Lettuce	459	498	case	239,086	284,997
Melons	385	423	ton	2,096	2,441
Onions	1,148	1,631	ton	10,069	17,933
Parsnips	56	65	ton	570	694
Potatoes (b)	5,748	5,948	ton	56,471	60,271
Pumpkins, etc.	1,126	764	ton	6,425	4,946
Tomatoes	1,083	1,408	bushel	737,119	994,422
Turnips	240	222	ton	2,018	1,730
All other	441	484	..	..	..
Total	16,564	17,426	..	..	..

(a) Grown for human consumption. Excludes vegetables grown for animal forage or seed (see also footnote (b)).

(b) Includes potatoes grown for seed.

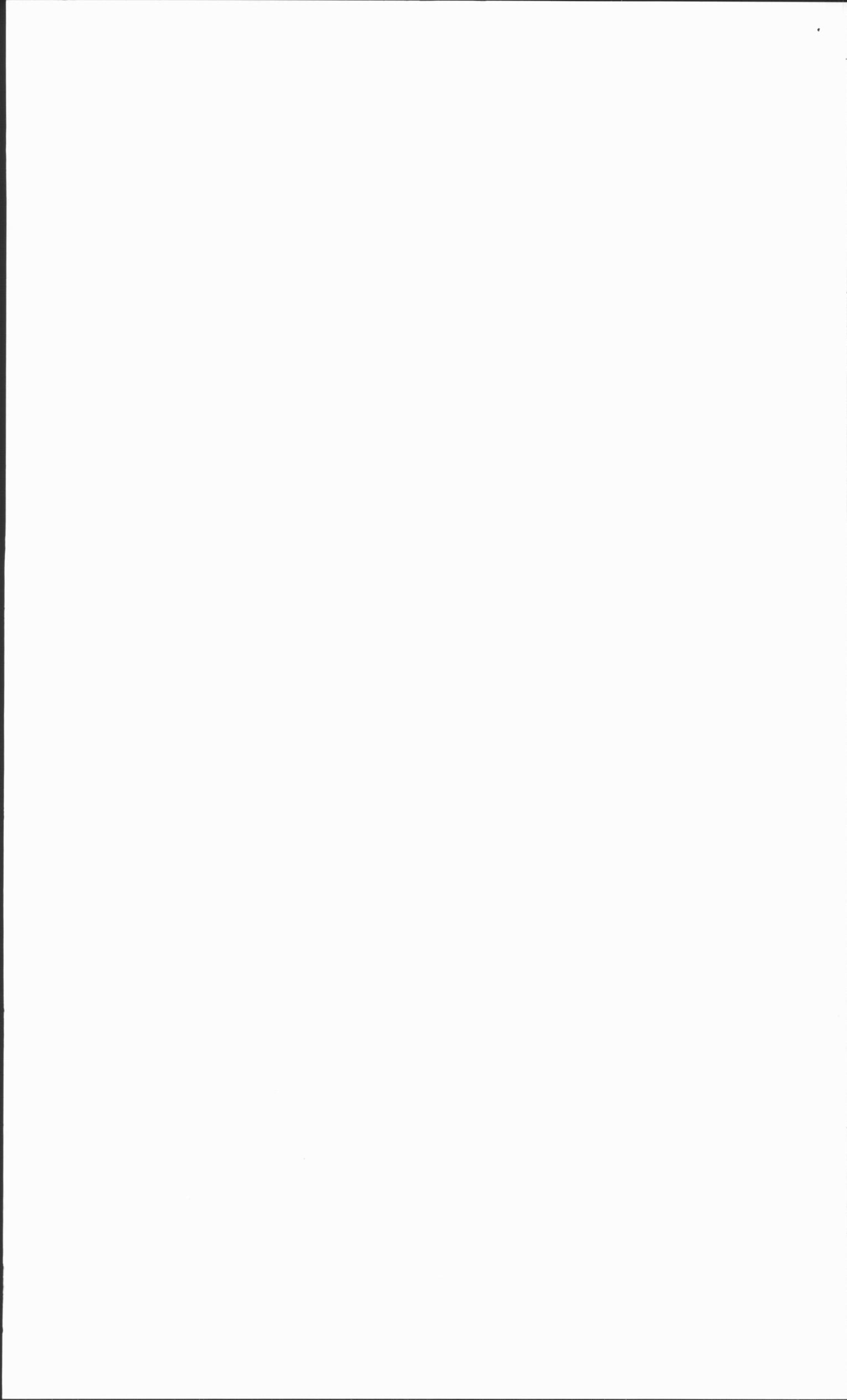


TABLE 7 - VINEYARDS : AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Acres Bearing		Unit	Production	
	1965-66	1966-67		1965-66	1966-67
Grapes used for -					
Wine	40,713	41,496	ton	129,855	163,780
Table	258	199	ton	1,210	1,027
Drying	12,563	11,037	ton	52,737	60,609
Total	53,534	52,732	ton	183,802	225,416
Produce -					
Wine (a)	..	..	'000 gal	23,884	(b) 29,638
Dried fruit -					
Currants	..	..	cwt	63,063	75,452
Sultanas	..	..	cwt	193,794	248,288
Raisins	..	..	cwt	44,498	22,597

(a) Excludes fortifying spirits added. (b) Preliminary

The total area of orchards has been increasing steadily in recent years, and records have been established in each year from 1956-57 (33,998 acres) to 1966-67 (44,157 acres). In 1966-67 record yields of almonds, apricots and peaches were obtained.

TABLE 8 - ORCHARDS : BEARING TREES AND PRODUCTION, SOUTH AUSTRALIA

Variety	No. of Bearing Trees		Unit	Production	
	1965-66	1966-67		1965-66	1966-67
Almonds	291,090	300,641	cwt	19,664	20,947
Apples	535,721	528,955	bushel	1,307,543	1,544,059
Apricots	365,443	381,895	bushel	826,748	1,307,308
Cherries	49,884	49,539	bushel	54,221	41,411
Citrus -					
Lemons, limes	20,649	22,720	bushel	42,827	55,345
Navel oranges	361,187	396,537	bushel	1,344,533	1,297,640
Valencia oranges	407,116	450,822	bushel	1,251,961	1,706,106
Other citrus	65,460	67,015	bushel	271,884	248,339
Figs	8,538	8,090	bushel	11,700	10,623
Nectarines	14,861	14,915	bushel	35,515	33,111
Olives	37,036	37,718	cwt	(a) 12,412	(a) 12,578
Peaches	394,864	397,346	bushel	1,302,536	1,426,570
Pears	172,549	165,911	bushel	508,748	530,091
Plums, prunes	85,283	78,487	bushel	95,882	104,607

(a) Includes olives grown in parklands and reserves.

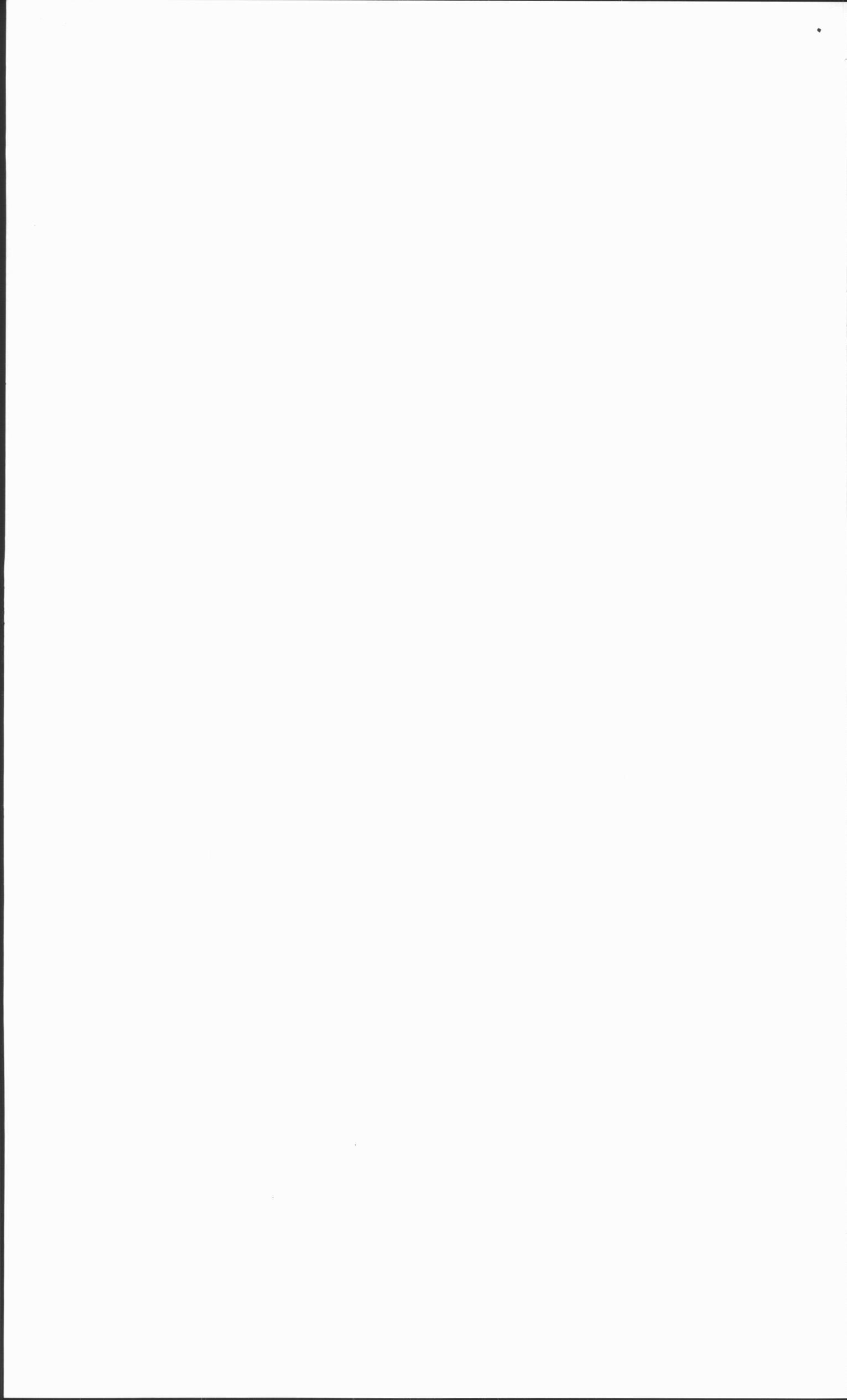
BEEKEEPING

The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions. The average yield of honey per productive hive decreased from 152 lb. in 1965-66 to 115 lb. in 1966-67.

TABLE 9 - BEEKEEPING : HIVES AND PRODUCTION (a), SOUTH AUSTRALIA

Particulars	1962-63	1963-64	1964-65	1965-66	1966-67
Beekeepers	842	857	781	793	784
Productive hives	51,010	63,142	58,728	65,522	57,311
Unproductive hives	18,590	8,535	13,900	9,333	15,511
Honey lb	4,147,215	9,721,492	6,526,587	9,929,399	6,588,090
Beeswax lb	56,199	134,008	89,810	136,429	93,427

(a) Excludes particulars for producers having less than 5 hives.



LIVESTOCK

The following table shows details of numbers of and production from livestock.

TABLE 10 - LIVESTOCK : NUMBER AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1962-63	1963-64	1964-65	1965-66	1966-67
'000					
Stock at end of March -					
Sheep	15,737	16,402	17,289	17,993	17,864
Cattle -					
Cows for milk production (a)	(b)	192	189	182	177
Other cattle for milk production	(b)	78	73	72	71
Cattle for meat production	(b)	424	435	436	439
Horses	25	(b)	(b)	(b)	16
Pigs	145	153	196	224	222
Poultry	2,029	2,159	2,199	2,320	2,913
Lambing (c) -					
Ewes mated	6,934	6,850	7,191	7,505	7,583
Lambs marked	5,443	5,402	5,739	5,954	5,974
Slaughterings (d) -					
Sheep	1,748	1,568	1,581	1,981	1,979
Lambs	1,718	1,428	1,519	1,493	1,378
Cattle and calves	254	279	275	277	265
Pigs	235	213	241	298	316
Production -					'000 Lb
Wool clip	189,854	194,787	200,059	212,745	220,438
Wool production (d) (e)	207,344	210,500	215,736	229,633	(f) 237,511
Butter (d)	16,608	16,791	17,392	16,326	(f) 15,314
Cheese (d)	33,967	34,236	38,836	36,281	(f) 38,780
Bacon and ham (d)	7,514	8,076	8,562	9,196	(f) 9,834
Milk (d)	95,378	97,523	102,330	98,398	(f) 98,929
'000 Gallons					

(a) Includes springing heifers and house cows.

(b) Not collected.

(c) Calendar year first stated.

(d) Year ended 30 June.

(e) Includes wool exported on skins and dead and fellmongered wool.

(f) Preliminary.

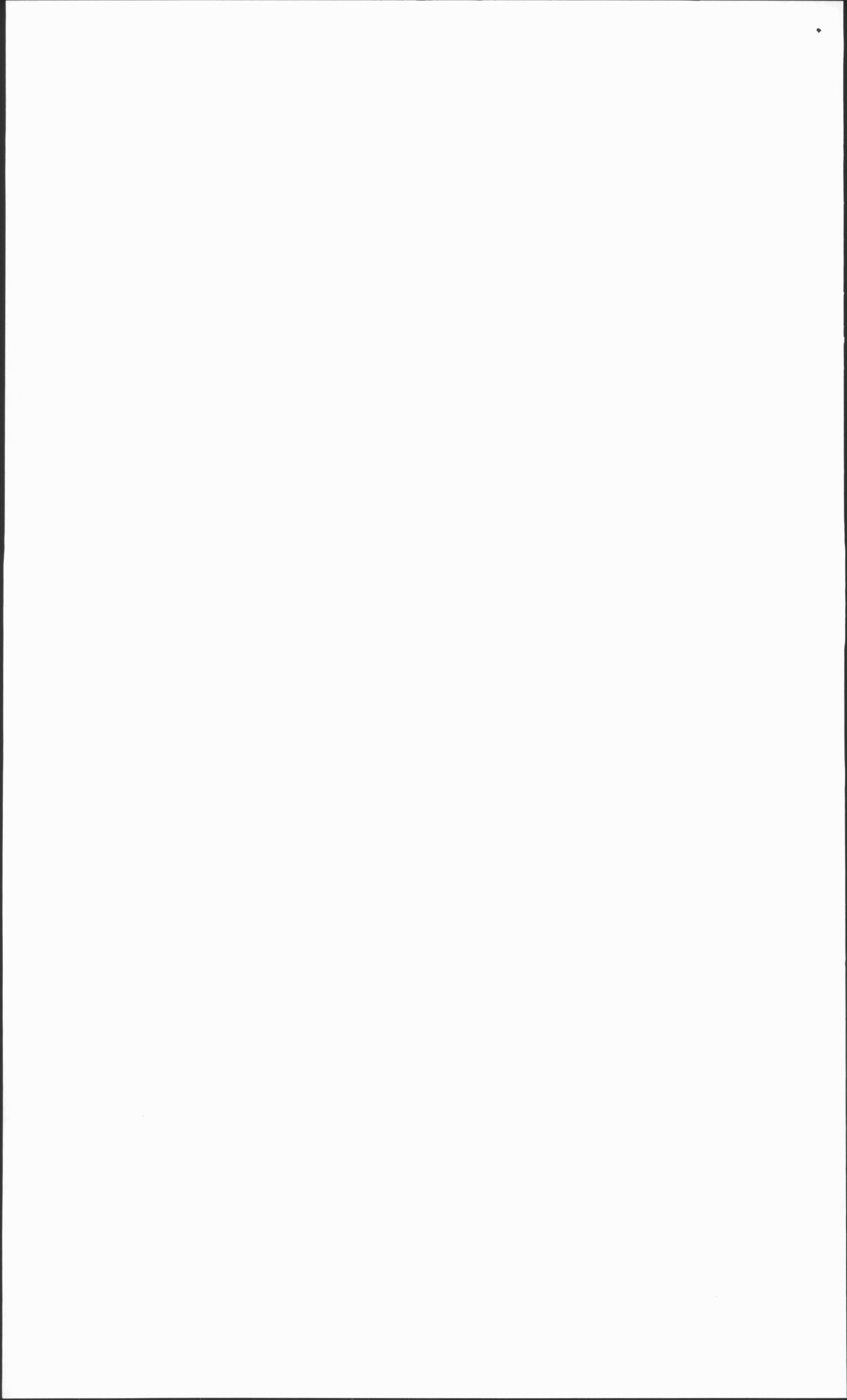
MACHINERY

Numbers of principal machines on rural holdings at 31 March in each of the last five years are shown in the following table:-

TABLE 11 - MACHINERY ON RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1963	1964	1965	1966	1967
Number					
Tractors - Wheeled	28,497	29,841	30,772	30,984	32,507
Crawler	3,174	3,390	3,392	3,014	3,322
Rotary hoes, rotary tillers	4,989	5,260	5,670	5,883	5,442
Fertilizer distributors	8,213	8,413	8,743	8,893	9,166
Drills and combines	20,316	20,358	20,785	20,790	20,282
Grain and seed harvesters	12,677	12,617	12,659	12,393	(a) 11,597
Hay balers	3,791	4,149	4,258	4,609	4,760
Forage harvesters	645	660	675	764	765
Milking machines - No.	7,553	7,438	7,328	7,040	6,634
Units	18,836	19,057	19,135	18,833	18,143
Shearing machines - No.	14,595	14,885	15,172	15,386	15,392
Stands	27,528	28,149	28,844	29,291	29,343

(a) Subject to revision



PRODUCTION  
RECORDS

New records were established in 1966-67 for the production of almonds, apricots, peaches, wool, the number of lambs marked, and for the area under sown pasture.

TABLE 12 - RURAL INDUSTRY : RECORD PRODUCTION, NUMBERS, ETC., SOUTH AUSTRALIA

Item	Unit	Quantity	Year	Item	Unit	Quantity	Year
Cereals -				Livestock -			
Production -				Sheep	'000	17,993	1966
Wheat	'000 bush	53,971	1963-64	Cattle	'000	697	1965
Barley	'000 bush	42,233	1960-61	Horses	'000	284	1913
Oats	'000 bush	11,992	1958-59	Pigs	'000	224	1966
Yield/acre -				Production -			
Wheat (a)	bushel	23.56	1960-61	Wool -			
Barley (a)	bushel	28.27	1958-59	Clip	'000 lb	220,438	1966-67
Oats (a)	bushel	24.93	1958-59	Total	'000 lb	(c) 237,511	1966-67
Vineyards -				Lambs marked	'000	5,974	1966
Grapes (b)	ton	234,297	1964-65	Milk	'000 gal	102,330	1964-65
Currants	cwt	209,140	1943-44	Butter	'000 lb	22,938	1939-40
Raisins	cwt	117,505	1953-54	Cheese	'000 lb	38,836	1964-65
Sultanas	cwt	333,300	1943-44	Bacon & ham	'000 lb	11,735	1945-46
Wine	'000 gal	30,831	1961-62	Honey	'000 lb	10,906	1948-49
Orchards -				Area under -			
Almonds	cwt	20,947	1966-67	Crop	'000 acres	5,426	1930-31
Apples	'000 bush	1,750	1940-41	Fallow	'000 acres	2,607	1932-33
Apricots	'000 bush	1,307	1966-67	Sown pasture	'000 acres	6,738	1966-67
Oranges	'000 bush	3,250	1964-65				
Peaches	'000 bush	1,427	1966-67				
Pears	'000 bush	574	1964-65				

(a) Slightly greater yields per acre were recorded from small acreages over 100 years ago.

(b) Includes fresh grapes used for drying.

(c) Preliminary.

DIRECT  
OVERSEA  
EXPORTS

The following table shows the quantities of principal rural products exported overseas from South Australian ports during the last five years; OVERSEA EXPORTS VIA OTHER STATES ARE EXCLUDED.

TABLE 13 - RURAL PRODUCTS : PRINCIPAL OVERSEA EXPORTS, SOUTH AUSTRALIA

Commodity	Unit	1962-63	1963-64	1964-65	1965-66	1966-67(a)
'000						
Food and live animals						
Meat - Beef	lb	7,914	8,032	5,626	7,482	13,075
Lamb	lb	15,336	8,828	10,570	7,294	2,505
Butter	lb	182	898	453	608	79
Cheese	lb	11,876	21,194	18,612	16,704	15,401
Grain - Wheat	bush	18,509	48,658	33,782	29,128	33,583
Barley	bush	6,875	13,450	12,894	6,202	11,357
Flour	ton	90	90	78	64	55
Fruit, dried - Raisins	lb	16,050	23,403	21,336	27,778	17,715
Other	lb	7,131	9,116	10,734	11,065	8,654
Preserved and pulped	lb	14,884	28,613	29,809	46,340	49,042
Beverages and tobacco						
Beverages - Wine	gal	1,516	1,437	1,882	1,803	1,604
Spirituous liquors	pf gal	100	87	101	109	111
Crude materials, inedible						
Wool - Greasy	lb	151,999	163,298	164,358	172,439	174,500
Other	lb	15,526	14,624	11,652	12,727	12,913

(a) Preliminary.

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ACTING DEPUTY COMMONWEALTH STATISTICIAN

Commonwealth Bureau of Census & Statistics  
ADELAIDE S.A.

8 November 1967

